

ABSTRACT

A dual power source system includes a first power source and a second power source operably coupled with an electrical device, as well as a switching mechanism capable of selecting between the first and second power sources. An uninterruptible power supply (UPS) is placed in line with one of the first and second power sources leading to the electrical device. Sense circuitry is capable of identifying a power failure condition in either the first or second power sources. A controller utilizes signals from the sense circuitry to selectively switch between the first and second power sources while configuring the UPS in a manner of providing for a plurality of operational states that accommodate the electrical device with operational power despite any combination of power failures in the first and second power sources.